

ZINC ALKALINE BATTERY

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Abstract

PROBLEM TO BE SOLVED: To easily carry out filling process of a gel zinc-based anode and provide a zinc alkaline battery with high safety and high performance and scarcely causing environmental pollution by adding a specified amount of fluorine-containing surfactant to the gel zinc-based anode with a specified viscosity.

SOLUTION: In a gel zinc anode having 100,000-300,000cPs viscosity at 25 deg.C, 0.5-100ppm of fluorine-containing surfactant is added to non-amalgamated zinc- based alloy powder. Consequently, environmental pollution by batteries for which non-amalgamated zinc alloy powder is used is suppressed and moreover zinc alkaline batteries with high impact resistance, safety, and performance can be obtained.

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